

Claims

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1. Information system for vehicles, comprising:
a plurality of contactless transceivers that allow a data
transfer at close range with terminals within the vehicle,
central data processing means,
a data bus that is connected with said transceivers and with
said data processing means, so that data can be transmitted between
private portable terminals of the passengers and the central data
processing means in both directions over said transceivers and said data
10 bus,
the system being usable for distributing information and
entertainment programs to the passengers,
passengers' identification data being stored in their terminals
in such a manner that these identification data are transmitted to said
15 central data processing means, so that the system can also be used for
checking the passengers' travel authorizations.
2. The information system of claim 1, wherein at least one radio
receiver is connected with said central data processing means that can
receive data from a sender outside the vehicle.
- 20 3. The information system of claim 2, wherein a bi-directional
data transfer is possible between said radio receiver and said sender.
4. The information system of claim 3, wherein the data received
with said radio receiver are converted into a format compatible with said
data bus.
- 25 5. The information system of claim 3, wherein said transceivers
are suitable for a communication with RFID elements.
6. The information system of claim 3, wherein said transceivers
are suitable for a communication according to the Bluetooth standard.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

The information system of claim 3, wherein said system is able for a communication according to the HomeRF standard.

The information system of claim 2, wherein said system receives DAB program-accompanying data.

The information system of claim 2, wherein said system receives DVB program-accompanying data.

The information system of claim 3, wherein said system receives and send GSM data.

The information system of claim 3, wherein said system receives and send UMTS data.

The information system of claim 10, wherein a communication between the passengers in the vehicle and an external mobile radio network can take place over said system receiver.

The information system of claim 12, wherein telephone network identifications are provided by the operator.

The information system of claim 12, wherein said system means comprise a visitor register in which the passenger identifications in said mobile radio network are stored.

The information system claim 1, wherein a voice communication between the passengers in the vehicle can take place via a bus.

The information system of claim 1, wherein at least one server is intended for checking the entering and leaving of the vehicle.

17. The information system of claim 16, wherein the position of the identified passengers in the vehicle is stored in said data processing means.

18. The information system of claim 17, wherein at least certain
5 data transmitted over said data bus are addressed depending on said stored position.

19. The information system of claim 1, wherein a software module for computing the traveled distance is executed in said central data processing means.

20. The information system of claim 19, wherein said software module uses the passengers' identification stored in said private terminals of these passengers.

21. The information system of claim 1, wherein a location-determining module is connected with said central data processing means.

22. The information system of claim 21, wherein location-dependent information is selected depending on said location-determining module and distributed to passengers.

23. Method for checking the travel authorizations of passengers in a vehicle, the passengers' travel authorizations being stored in personal
20 terminals,

wherein said travel authorizations are transmitted to central data processing means over a data bus that is also used for distributing information and entertainment programs to passengers.

24. The method of claim 23, wherein said information and
25 entertainment programs are reproduced with said personal terminals.

25. The communication method of claim 23, wherein the passengers log into an external mobile radio network over said data bus.

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26. The communication method of claim 25, wherein a temporary user identification is provided by the operator of the vehicle.

27. The communication method of claim 26, wherein the passengers' personal user identification in the external mobile radio network is stored in a visitor register in the vehicle.

28. Information system for vehicles, comprising:
a plurality of short range radio transceivers that allow a bidirectional data transfer at close range with passengers' personal terminals within the vehicle,
10 central data processing means,
a data bus that is connected with said transceivers and with said data processing means, so that data can be transmitted between private portable terminals of the passengers and the central data processing means in both directions over said transceivers and said data
15 bus,
the system being usable for distributing information and entertainment programs to the passengers,
passengers' identification data being stored in their personal terminals in such a manner that these identification data are transmitted to
20 said central data processing means, so that the system can also be used for checking the passengers' travel authorizations.

29. The information system of claim 28, wherein said transceivers and said terminals are suitable for a communication according to the Bluetooth standard.

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